

Please cancel claims 5-11. Applicant reserves the right to file a divisional application on the non-elected claims.

Please amend claims 1-4 as follows:

1. (Amended) A method for immunoassay with a magnetic material labelled a Superconducting Quantum Interference Device which comprises the following process:

(1) an analyte to detect an antigen-antibody reaction is labelled with said magnetic material label,

(2) the magnetic material label is magnetized by a magnetic field,

(3) the magnetic material label magnetized by the magnetic field is detected by the Superconducting Quantum Interference Device which detects a variation of strength of a magnetic field which is at a right angle to the magnetic field which magnetizes the magnetic material label.

2. (Amended) A method mentioned in claim 1, wherein said magnetic field to magnetize the magnetic material label used in step (2) is a static magnetic field.

3. (Amended) A method mentioned in claim 1, wherein said Superconducting Quantum Interference Device detects variations of the strength of the magnetic field which occurs by moving the analyte labeled by the magnetized magnetic material label.

4. (Amended) A method mentioned in claim 1, wherein the analyte moves parallel to the magnetic field which magnetizes the magnetic material label.

Please add the following new claims:

12. (New) A method for immunoassay using a magnetic material label and a Superconducting Quantum Interference Device comprising the steps of:

(a) labeling an analyte with a magnetic material label,

(b) magnetizing said magnetic material label by applying a magnetic field along a first direction, and

(c) using said Superconducting Quantum Interference Device, detecting a variation of strength of a magnetic field from said magnetized magnetic material label along a second direction perpendicular to said first direction.

13. (New) The method as recited in claim 12 wherein said magnetic field along said first direction is a static magnetic field.

14. (New) The method as recited in claim 12 wherein step (c) is performed while moving said labeled and magnetized magnetic material label.

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15. (New) The method as recited in claim 14 wherein said step of moving is performed by moving said labeled and magnetized analyte in a direction parallel to said first direction.
